

## INTERNATIONAL SEARCH REPORT

International Application No

/EP2004/011475

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 F01N3/00 F01N1/00 F01N1/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 F01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 430 921 B1 (STUART JOHN W ET AL) 13 August 2002 (2002-08-13) column 3, line 55 – column 6, line 13 figures 1-4	1-3, 5, 6
X	US 4 610 700 A (MILLER ET AL) 9 September 1986 (1986-09-09) column 1, line 5 – column 2, line 14 figures 1-3	1, 5
X	DE 36 14 213 A1 (WERDNIK, IVO, DIPL.-ING) 29 October 1987 (1987-10-29) the whole document	1-3, 5
A	GB 2 148 390 A (GUY * VIELLARD) 30 May 1985 (1985-05-30) the whole document	1
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*&\* document member of the same patent family

Date of the actual completion of the international search

14 February 2005

Date of mailing of the international search report

25/02/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2 241 768 A (DEREMER FLOYD E) 13 May 1941 (1941-05-13) the whole document	1

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

/EP2004/011475

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 6430921	B1	13-08-2002	NONE			
US 4610700	A	09-09-1986	AT AU AU BR CA DE DK EP KR NO WO	27987 T 567988 B2 3615584 A 8407155 A 1240484 A1 3464400 D1 307585 A ,B, 0145909 A2 9104917 B1 852652 A ,B, 8501986 A1		15-07-1987 10-12-1987 22-05-1985 08-10-1985 16-08-1988 30-07-1987 04-07-1985 26-06-1985 18-07-1991 02-07-1985 09-05-1985
			JP	1034281 B		18-07-1989
			JP	61500325 T		27-02-1986
DE 3614213	A1	29-10-1987	NONE			
GB 2148390	A	30-05-1985	FR IT	2553825 A1 1196302 B		26-04-1985 16-11-1988
US 2241768	A	13-05-1941	NONE			

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